

AMENDMENTS TO THE CLAIMS

Claims 1-5: (Canceled)

Claim 6 (Presently Amended): A searcher device for correlating a first code sequence with a second code sequence, the searcher comprising:

a memory for storing the first code sequence; and

a plurality of computation circuits coupled to the memory, wherein each of the plurality of computation circuits performs a correlation operation between the first code sequence and the second code sequence at a unique phase offset ~~The searcher recited in Claim 1, and~~

~~wherein each of the plurality of computation circuits has a unique coupling offset from each other with respect to a location in which they are coupled to the memory.~~

Claims 7-16 (Canceled)

Claim 17 (Original): In a searcher, a method of determining a phase offset of a signal, the method comprising the steps of:

a) receiving the signal having a first code sequence in a memory;

b) receiving an additional signal having a second code sequence at a plurality of computation circuits;

c) implementing a unique phase offset for the second code sequence in each of the plurality of computation circuits by wherein offsetting step c) comprises the following step:

loading the second code sequences in the plurality of computation circuits, wherein the plurality of computation circuits are each coupled in an offset manner with the memory; and

d) correlating the second code sequence having the unique phase offsets with the first code sequence in each of the respective plurality of computation circuits~~The method recited in Claim 12.~~

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Claim 18 (Original): In a searcher, a method of determining a phase offset of a signal, the method comprising the steps of:

a) receiving the signal having a first code sequence in a memory;

b) receiving an additional signal having a second code sequence at a plurality of computation circuits;

c) implementing a unique phase offset for the second code sequence in each of the plurality of computation circuits by~~The method recited in Claim 12 wherein offsetting step c) comprises the following step:~~ temporarily storing the second code sequence in a memory buffer with varying size to provide the unique phase offset to each of the plurality of computation circuits; and

d) correlating the second code sequence having the unique phase offsets with the first code sequence in each of the respective plurality of computation circuits.

Claims 19-25 (Canceled)

Claim 26 Original): A communication device for processing data signals, the communication device comprising:

a transceiver for receiving a signal having a first code sequence;

a code generator for generating a second code sequence;

a searcher coupled to the transceiver and to the code generator, the searcher having a plurality of computation circuits for correlating in parallel the first code sequence and the second code sequence at a plurality of offsets; and ~~The communication device recited in Claim 23 further comprising:~~

at least one memory block coupled to at least one of the plurality of computation circuits, the memory block having a variable length to implement a variable offset between the first code sequence and the second code sequence.

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Claim 27 (Canceled)

Claim 28 (Newly Added): A searcher device for correlating a first code sequence with a second code sequence, the searcher comprising:

a memory for storing the first code sequence;

a plurality of computation circuits coupled to the memory; and

a plurality of offset code sequence generators that are coupled respectively to the plurality of computation circuits and generate the second code sequence at unique phase offsets,

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wherein each of the plurality of computation circuits performs a correlation operation between the first code sequence and the second code sequence at a unique phase offset.